09/547,476 PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	**Graydon Ernest Beatty**	Examiner:	**Barry Pass**
Serial No.:	**09/547,476**	Group Art Unit:	**3737**
Filing Date:	**April 12, 2000**	Docket No.:	**1934**
Title	**Interface System for Endocardial Mapping Catheter**		

Date of Deposit: 9/11/03
I hereby certify that this paper is being deposited in the United States Postal Service, as first class mail, in an envelope addressed to: Assistant Commissioner for Patents, Washington, DC 20231

Signature: Robert C. Beck
Printed Name: Robert C. Beck

8/8 WE

Ok to Enter
DR 12/2/03

RESPONSE

A-22

Commissioner for Patents
Alexandria, VA 22313

This is responsive to the outstanding Office Action mailed April 11, 2003. Reconsideration and allowance of this application is respectfully solicited in view of the following amendments and remarks.

AMENDMENTS

Amended claims are presented in two versions in the accompanying documents. One version (titled "Replacement Claims") is a clean version of the claims as the Applicant desires them to read upon entry of this Amendment. The other version (titled "Version with Markings to Show Changes Made") is a marked up version indicating changes made by this Amendment.

Kindly rewrite the first paragraph as follows:

--This application is a divisional of Ser. No. 09/005,105, filed Jan. 9, 1998 which is a continuation in part of application of Ser. No. 08/387,832, filed May 26, 1995, now U.S. Pat. No. 6,240,307 which is a national stage application of PCT/US93/09015, filed Sept. 23,1992, which in turn claims priority from U.S.S.N. 07/950,448, filed Sept. 23, 1992, now U.S. Pat. No. 5,297,549 and U.S.S.N. 07/949,690, filed Sept. 23, 1992, now U.S. Pat. No. 5,311,866. Applicants claim priority to: 08/387,832, filed May 26, 1995, now U.S. Pat. No. 6,240,307; Ser. No. 08/376,067 filed Aug. 20 1995, now U.S. Pat. No. 5,553,611; and Ser. No. 08/178,128 filed Jan. 6, 1994, now abandoned.--

Kindly cancel claims 1-4 and 6-9 without prejudice, and amend claims 5, 10 and 11 as follows:

5. An interface system for monitoring passive electrodes and driving active electrodes on an endocardial mapping catheter, the interface system comprising:
   a) a passive electrode interface adapted to monitor the passive electrodes;
   b) an active electrode interface adapted to drive the active electrodes;
   c) a computer interface adapted to allow computer monitoring of the passive electrodes and driving of the active electrodes;
   d) a signal generator controlled by the computer interface, the signal generator electrically connected to the active electrode interface said signal generator electrically connected to the surface electrode interface;
   e) a surface electrode interface adapted for electrical connection to surface electrodes;
   f) a therapy catheter interface adapted to electrically connect to electrodes on a therapy catheter, the therapy catheter interface is electrically connected to the computer interface through a signal conditioner.

10. The interface system of claim 5, wherein the passive electrode interface further comprises a signal conditioner having a high pass section and a low pass section, wherein the therapy catheter interface further comprises a